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ABSTRACT

This publication is one of a six-part inventory of energy education materials. Included in this part is a listing of kits, games, and miscellaneous curricula. For each of the materials listed the following items are included when available: (1) Title; (2) Author; (3) Availability; (4) Cost; (5) Grade Level; (6) Related Materials; and (7) Evaluation of the material. Materials listed in this reference include both print and non-print items for teachers and students. (RH)

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ED 133 195

prepared by Energy & Man's Environment, Inc. for the Federal Energy Administration

e.e.m.i.

U S DEPARTMENT OF HEALTH
EDUCATION & WELFARE
NATIONAL INSTITUTE OF
EDUCATION

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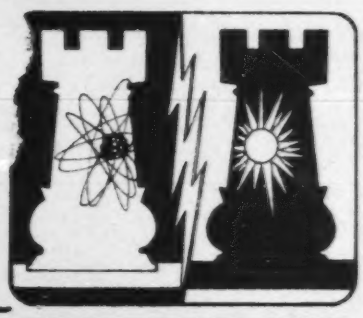
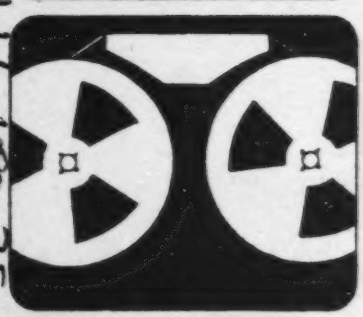
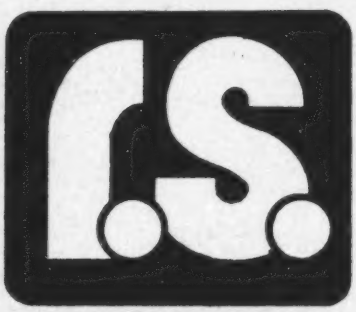
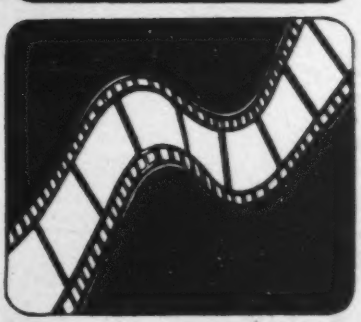


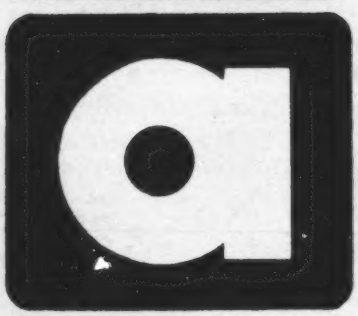
iv. kits, games & misc. curricula

SE 021 771









energy education materials inventory

e.e.m.i.

a six-part
Energy Education Materials Inventory,
prepared for the
Federal Energy Administration
by
Energy & Man's Environment, Inc.:
- John C. Jones, President
- Ilene Wright, Proj. Co-ord.
- Noel McInnis, Proj. Co-ord.

September, 1976

part four: kits, games, & miscellaneous curricula

ACKNOWLEDGEMENTS

The EEMI search for energy education materials depended on the active support and contributions of many individuals. The most deserving of recognition--the hundreds that responded to EEMI mailings--must remain unnamed. Regular EEMI advisors, Maggi Rogers, Leslie Wycoff, Dr. Peet Soot and Ray Theiss, provided creative ideas, valuable insight and patience. Special consultant, Dr. Jon Wert, won enduring appreciation for his conscientious work and humor. Tim Crean and Ed Sawyer at the National Energy Information Center distinguished themselves by searching and re-searching computerized data banks. FEA's representative, Rene Vawter, nurtured us with wise counsel and enthusiasm. Her support made the EEMI Project an enjoyable challenge. My personal gratitude and that of the EEMI staff is extended to Dr. John Jones, President of Energy & Man's Environment. His determination, bouyancy and drive gave us all strength. The EME office and field staff endured the disruption and day-to-day crises of this short-term, intensive project with smiles. Mary Madden and Vicki Blair of Blackwell/North America coordinated data processing with insight and sensitivity to the task. Last in this list, but first in my thoughts and feelings, the EEMI staff--Cheryl Glazer, Larry Israel and Noel McInnis. They ultimately did the daily ration of work by maintaining their good spirits with Cheryl's herb teas, Larry's laughter and Noel's not-so-inferior puns. My thanks to all of you. It's been a pleasure.

Ilene A. Wright
EEMI Project Coordinator

COVER DESIGN AND GRAPHICS

by Larry B. Israel

Prepared for the

Federal Energy Administration

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September, 1976

Development of these booklets was supported by the Federal Energy Administration, Office of Marketing Education through Contract #CR 04-60565-00. However, no U.S. Government endorsement of the materials included in this Inventory should be inferred. All mistakes and inconsistencies are the sole responsibility of Energy & Man's Environment, Inc.

PRELUDE

Every realm of life is shaped and molded by energy flow
as most people learned rather abruptly
during the winter of energy scarcity, 1973-74.
Rising prices, unemployment, food shortages,
detente, embargo, the politics of the Middle East,
air pollution, brown-outs and 55 MPH signs
continually remind us of our energy-dependent existence
and the complex nature of our energy dilemma.

America's need for the skills and understanding
necessary to resolve energy problems
was met with a deluge of information, contradictory data,
public hearings, impact statements, new laws and judicial decisions.
Disagreements and only slight accord among THE experts
added seasoning and anxiety.
People wondered, "Is this fact?
Or is this opinion and interpretation?"

In the midst of this situation
private and governmental agencies sought
citizen contributions to policy and program formation.
At the same time attitudes toward decision making changed
from THE "right answer"
to "Based on what we know today...."

During three years of grappling with energy-related issues
Americans relearned that information and its meaning change from day
to day.
Americans began to recognize
how little they knew,
how much both they and THE experts have to learn,
how rapidly information becomes obsolete,
how quickly yesterday's considered decisions are labeled mistakes.
As a result Americans sought
the perspectives, knowledge and skills
required to meet the challenges of living today.

Educators in every sector responded--no discipline was left untouched!
Using current information, and diverse perspectives and opinions,
educators began to teach the skills young people need
to process and keep up with enduring, evolving controversies
by using energy concerns as the basis for learning experiences.

The ENERGY EDUCATION MATERIALS INVENTORY
is the most comprehensive, available list of resources
for use by K-12 teachers and students
in pursuit of understanding and effective action within
the interdisciplinary energy dilemma.

Hopefully this INVENTORY will encourage
even more productive energy education.

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COMMENTARY ON BOOKLETS I-IV

WHAT WAS THE EEMI PROJECT? EEMI was designed to produce a thorough inventory of existing energy education materials and reference sources. It is intended that this systematic listing will provide educators with access to resources and will hasten the inclusion of energy-focused learning experiences in educational programs.

HOW IS THE INVENTORY ORGANIZED? There are six parts: Print Materials; Non-Print Materials-Part 1; Non-Print Materials-Part 2: 16 MM Films; Kits, Games and Miscellaneous Curricula; Reference Sources; and Indexes.

WHAT IS INSIDE? Citations are grouped into chapters by type of material (e.g., all 35 mm films are listed together). Within each chapter the citations are listed alphabetically by title.

WHAT IS IN A CITATION? Each citation contains the information normally used by libraries and book-buyers to purchase materials. A typical entry in Booklet I-IV follows:

1. Title and sub-titles
2. Author's name and initials
3. Imprint (city, publisher and year of publication)
4. Cost (if known)
5. (Grade) Level:
6. Accompanying materials, if any
7. Tested: (yes or no; no entry = unknown)

[1]*ENERGY LEARNING PACKET FOR ENERGY CONSERVATION AWARENESS. [2]COURREGES, E.M. [3]JACKSONVILLE, FL, DUVAL COUNTY SCH. BOARD, 1974. [4]$5.65
[5]LEVEL: 4-6
[6]STUDENT MATERIALS TEACHER'S GUIDE
[7]TESTED: NO

ARE THERE EXCEPTIONS? Yes! Liberty was taken with the traditional imprint information. The actual distributor of the material was recorded if different than the publisher. Late entries are listed in addenda at the end of Booklets I, II and III.

AND FOR BOOKLETS V AND VI? Reference source entries are described at the beginning of Booklet V. The Indexes in Booklet VI cross-reference author's names and titles of materials to page numbers.

WHAT ELSE DO I NEED TO USE THIS INVENTORY? Booklets I-IV use library-style, bibliographic citations that do not include complete addresses. Use Books-In-Print catalogues, telephone books and/or information and directories compiled by libraries and book-buyers to obtain complete addresses.

WHO COMPILED THIS INVENTORY FOR FEA? Energy & Man's Environment, Inc. EME is a non-profit corporation serving America's educational communities. EME encourages and supports educators in their efforts to create an energy literate public.

ABBREVIATIONS

ADMIN.....ADMINISTRATION
AMER.....AMERICAN
ASSN.....ASSOCIATION
ASSOC.....ASSOCIATED
A-V.....AUDIO-VISUAL
&.....AND
BK.....BOOK
BKS.....BOOKS
BLDG.....BUILDING
BLVD.....BOULEVARD
BROS.....BROTHERS
CO.....COMPANY
CO-OP.....CO-OPERATIVE
COM.....COMMUNITY
CORP.....CORPORATION
CT.....COURT
CTR.....CENTER
DEV.....DEVELOPMENT
ED.....EDUCATION(AL)
ENCY.....ENCYCLOPEDIA
ENTP.....ENTERPRISES
EST.....ESTABLISHMENT
GOVT.....GOVERNMENT
INC.....INCORPORATED
IND.....INDUSTRIAL, INDUSTRY
INST.....INSTITUTE
INSTR.....INSTRUCTIONAL
INTL.....INTERNATIONAL
LAB.....LABORATORY
LTD.....LIMITED
MAG.....MAGAZINE
MFG.....MANUFACTURING
NATL.....NATIONAL
ORG.....ORGANIZATION
PROD.....PRODUCTION
PROG.....PROGRAM
PROJ.....PROJECT
PL.....PLACE
PUBL..... (PUB.,PUBS.)...PUBLISHER, PUBLISHING
R&D.....RESEARCH & DEVELOPMENT
RD.....ROAD
RR.....RAILROAD
RY.....RAILWAY
SCH.....SCHOOL
SCI.....SCIENCES
S.P.I.....SUPERINTENDENT OF PUBLIC INSTRUCTION
SQ.....SQUARE
ST.....STREET
THOS.(THM).....THOMAS
TR.....TERRACE
TV.....TELEVISION
UNIV.....UNIVERSITY
VOC.....VOCATIONAL

AN ASKERISK (*) IDENTIFIES
THOSE ITEMS KNOWN TO INCLUDE
AN ENERGY CONSERVATION PERSPECTIVE.

STANDARDIZATIONS

ABC/TV.....AMERICAN BROADCASTING COMPANY TELEVISION
BBC/TV.....BRITISH BROADCASTING COMPANY TELEVISION
CBS/TV.....COLUMBIA BROADCASTING SYSTEM TELEVISION
FEA.....FEDERAL ENERGY ADMINISTRATION
GM CORP.....GENERAL MOTORS CORPORATION
NASA.....NATIONAL AERONAUTICS & SPACE ADMINISTRATION
NBC/TV or NBC ED. ENTP.....NATIONAL BROADCASTING COMPANY EDUCATIONAL ENTERPRISES
U.S. AEC.....UNITED STATES ATOMIC ENERGY COMMISSION
U.S. ERDA-TIC.....UNITED STATES ENERGY RESEARCH & DEVELOPMENT ASSOCIATION-TECHNICAL INFORMATION CENTER
U.S. GPO.....UNITED STATES GOVERNMENT PRINTING OFFICE

kits · packages

KIT/PACKAGE

BATTERIES AT WORK. MEDIA MATERIALS, INC. BALTIMORE, MEDIA MATERIALS, INC. $9.95
LEVEL: 3-5
LIBRARY CARDS
WORKBOOK
STUDENT MATERIAL
TEACHER'S GUIDE
CASSETTE AUDIO-TAPE

BATTERIES & BULBS: DISCOVERY KITS. CHILDREN'S MUSEUM, RESOURCE CTR. BOSTON, CHILDREN'S MUSEUM, RESOURCE CTR. $3.00 PER WEEK RENTAL FEE
246 LEVEL: ADAPTABLE FOR MOST LEVELS
ACTIVITY-CENTERED OBJECTS
TEACHER'S GUIDE
TESTED: YES

COAL: LOAN EXHIBIT KIT. CHILDREN'S MUSEUM, RESOURCE CTR. BOSTON, CHILDREN'S MUSEUM, RESOURCE CTR. $3.00 PER WEEK RENTAL FEE
LEVEL: K-12
ILLUSTRATIONS
TESTED: YES

*CONSERVATION OF ENERGY. KANIGHER, H, ET AL. LOS ANGELES, LOS ANGELES CITY SCHS., 1976.
LEVEL: 5-8
STUDY PRINTS, TASK CARDS, DUPLICATING ACTIVITY, SHEETS FOR STUDENTS
STUDENT MATERIAL
DITTO MASTER
TEACHER'S GUIDE

ELECTRICAL SAFETY KIT. PACIFIC POWER & LIGHT. PORTLAND, OR, PACIFIC POWER & LIGHT.

KIT/PACKAGE (CONT.)

ENERGY CHALLENGE. UNION TOWNSHIP SCHOOLS SYSTEM. UNION, NJ 07083, UNION TOWNSHIP, 1975.
LEVEL: 10-12
WORK CARDS
WORKBOOK
DITTO MASTER
TEACHER'S GUIDE
CASSETTE AUDIO-TAPE
FILM STRIP
TESTED: YES

ENERGY-ENVIRONMENT CURRICULUM MATERIALS. BRENNAN, M., ED., ET AL. FT. MYERS, FL, LEE COUNTY SCHOOLS, 1976.
LEVEL: K-12
2 PART CARD ACTIVITY SET. SET 1 - 270 STUDENT ACTIVITIES K-12
ENRICHMENT MATERIAL
STUDENT MATERIAL
TEACHER'S GUIDE
TESTED: YES

ENERGY FILMSTRIP (NO TITLE YET: AVAILABLE NOVEMBER 1976) ALUMINUM ASSOC. NEW YORK, ALUMINUM ASSN., 1976.
LEVEL: 7-12
TEACHER'S GUIDE
FILM STRIP

ENERGY & MATTER. KRESS, S., ET AL. DANSVILLE, NY, INSTRUCTOR PUBL., 1975. $4.95
POSTER
ENRICHMENT MATERIAL
STUDENT MATERIAL
TEACHER'S GUIDE

ENERGY RESOURCES OF TEXAS: UNIT I: ENERGY FROM START TO FINISH. ANDERSON, J.E. AUSTIN, BUREAU OF ECONOMIC GEOLOGY, 1976. $3.00 PLUS $.15 STATE SALES TAX FOR RESIDENTS OF TEXAS
LEVEL: 7-9
MAP
STUDENT MATERIAL
CURRICULUM GUIDE
TEACHER'S GUIDE
TESTED: YES

KIT/PACKAGE (CONT.)
ENERGY: TODAY AND TOMORROW. DEPT. OF ED. SAN DIEGO, SAN DIEGO COUNTY, 1975.
LEVEL: 4-12
BOARD GAME
PAMPHLET
CHART
ENRICHMENT MATERIAL
COLORING BOOK
DITTO MASTER
CURRICULUM GUIDE
TEACHER'S GUIDE
TRANSPARENCY
TESTED: YES

ENERGY & YOUR FUTURE ENVIRONMENT. CHEVRON CO. REDWOOD CITY, CA, VISUAL MATERIALS, INC., 1973.
LEVEL: 5-6
DITTO MASTER
TEACHER'S GUIDE
TRANSPARENCY
FILM STRIP
TESTED: YES

ENVIRONMENTAL EDUCATION CURRICULUM SERVICE. MYSTIC, CT, NATURAL SCIENCE FOR YOUTH FOUNDATION, MONTHLY. $20.00 PER YEAR (10 ISSUES)
LEVEL: 4-6
POSTER
STUDENT MATERIAL
FIELD TRIP GUIDE
CURRICULUM GUIDE
TEACHER'S GUIDE
TESTED: YES

ENVIRONMENTAL HEALTH: ENERGY & THE ENVIRONMENT. FODER, J.T., ET AL. ROSEMEAD, SO. CALIF. EDISON, 1973.
LEVEL: 10-12
STUDENT MATERIAL
TEACHER'S GUIDE
RECORD (DISC)
FILM STRIP
TESTED: YES

KIT/PACKAGE (CONT.)
ENVIRONMENTAL HEALTH: ENERGY & THE ENVIRONMENT. SO. CALIF. EDISON. SANTA MONICA, ROSUSTOW, S. PROD., 1974. $39.00 (2 PARTS)
LEVEL: 7-12
FILM STRIP
TESTED: YES

ENVIRONMENTAL IMPROVEMENT. U.S. JAYCEES. TULSA, OK., U.S. JAYCEES.
ENRICHMENT MATERIAL

FUNDAMENTALS OF ELECTRICITY. PACILIO, J. CHICAGO, WEBER COSTELLO.
LEVEL: 4-6

GEARED FOR ACTION. MEDIA MATERIALS, INC. BALTIMORE, MEDIA MATERIALS, INC. $9.95
LEVEL: 3-5
LIBRARY CARDS
WORKBOOK
STUDENT MATERIAL
TEACHER'S GUIDE
CASSETTE AUDIO-TAPE

*HERE'S YOUR SAVENERGY KIT FOR PROMOTING ENERGY CONSERVATION. U.S. DEPT. OF COMMERCE OFFICE OF ENERGY PROG. WASHINGTON, U.S. DEPT. OF COMMERCE OFFICE OF ENERGY PROG.
STUDENT MATERIAL
ENERGY ACTIVITY GUIDELINES

"HOW YOUR GAS METER WORKS" AMER. GAS ASSN. ED. SVCS. ARLINGTON, VA, AMER. GAS ASSN. ED. SVCS., 1966.
LEVEL: 7-9
CHART
STUDENT MATERIAL
DITTO MASTER
TEACHER'S GUIDE
TESTED: YES

KIT/PACKAGE (CONT.)
HYDROCARBON CIVILIZATION.
HESSLER, E. MINNEAPOLIS, MINNESOTA ENVIRONMENTAL SCI. FOUNDATION, INC., 1975. $5.50
LEVEL: 10-12
ENRICHMENT MATERIAL
STUDENT MATERIAL
CURRICULUM GUIDE
TEACHER'S GUIDE
TESTED: YES

KITE SAFETY CLINICS.
PACIFIC POWER & LIGHT. PORTLAND, OR, PACIFIC POWER & LIGHT.

LIGHT & SOUND ENERGY.
MILLIKEN PUBL. CO. ST. LOUIS, MILLIKEN PUBL. CO. $7.95
LEVEL: 5-9
DITTO MASTER
TEACHER'S GUIDE
TRANSPARENCY

LIVING WITH LIGHT. BETTER LIGHT BETTER SIGHT BUREAU. NEW YORK, ELECTRIC ENERGY ASSN.
LEVEL: 4-9
WORKBOOK
TEACHER'S GUIDE

MACHINES AT WORK. MEDIA MATERIALS, INC. BALTIMORE, MEDIA MATERIALS, INC. $9.95
LEVEL: 4-6
LIBRARY CARDS
WORKBOOK
STUDENT MATERIAL
TEACHER'S GUIDE
CASSETTE AUDIO-TAPE

MACHINES & WORK. MILLIKEN PUBL. CO. ST. LOUIS, MILLIKEN PUBL. CO. $7.95
LEVEL: 5-9
DITTO MASTER
TEACHER'S GUIDE
TRANSPARENCY

KIT/PACKAGE (CONT.)
MAGNETISM & ELECTRICITY.
MILLIKEN PUBL. CO. ST. LOUIS, MILLIKEN PUBL. CO. $7.95
LEVEL: 5-9
DITTO MASTER
TEACHER'S GUIDE
TRANSPARENCY

MAGNETS: DISCOVERY KIT.
CHILDREN'S MUSEUM, RESOURCE CTR. BOSTON, CHILDREN'S MUSEUM, RESOURCE CTR. $3.00 PER WEEK RENTAL FEE
LEVEL: ADAPTABLE FOR MOST LEVELS
ACTIVITY-CENTERED OBJECTS
TEACHER'S GUIDE
TESTED: YES

MAGNETS & ELECTRICITY.
BUTTS, M. DANSVILLE, NY, INSTRUCTOR PUBL., 1974. $4.95
LEVEL: 1-6
TEACHER BACKGROUND MATERIAL
POSTER
ENRICHMENT MATERIAL
STUDENT MATERIAL
CURRICULUM GUIDE
TEACHER'S GUIDE

"NATURAL GAS ... SCIENCE BEHIND YOUR BURNER" AMER. GAS ASSN. ED. SVCS. ARLINGTON, VA, AMER. GAS ASSN. ED. SVCS., 1965.
LEVEL: 6-9
MAP
CHART
WORKBOOK
STUDENT MATERIAL
TEACHER'S GUIDE
TESTED: YES

OF DEMOCRACY, TRUTH AND COURAGE: STUDIES OF ENVIRONMENTAL ACTION.
TANNER, T. NEW YORK, NAT'L AUDUBON SOCIETY, 1976. $24.95
LEVEL: 10-12
PHOTOS
STUDENT MATERIAL
DITTO MASTER
TEACHER'S GUIDE
TESTED: YES

KIT/PACKAGE (CONT.)
OIL - LOAN EXHIBIT KIT.
CHILDREN'S MUSEUM, RESOURCE CTR. BOSTON, CHILDREN'S MUSEUM, RESOURCE CTR. $3.00 PER WEEK RENTAL FEE
LEVEL: K-12
ILLUSTRATIONS
TESTED: YES

OUR ENERGY-BASED ECONOMY 1974. EDISON ELECTRIC INST. NEW YORK, EDISON ELECTRIC INST., 1974. $30.00
LEVEL: 6-8
DITTO MASTER
TEACHER'S GUIDE
RECORD (DISC)
FILM STRIP
TESTED: YES

*PROJECT PHYSICS TEACHER GUIDE 3; THE TRIUMPH OF MECHANICS. HARVARD UNIV. CAMBRIDGE, MA, HARVARD UNIV., 1968. $18.40
LEVEL: 10-12
TEXTBOOK
TEACHER'S GUIDE

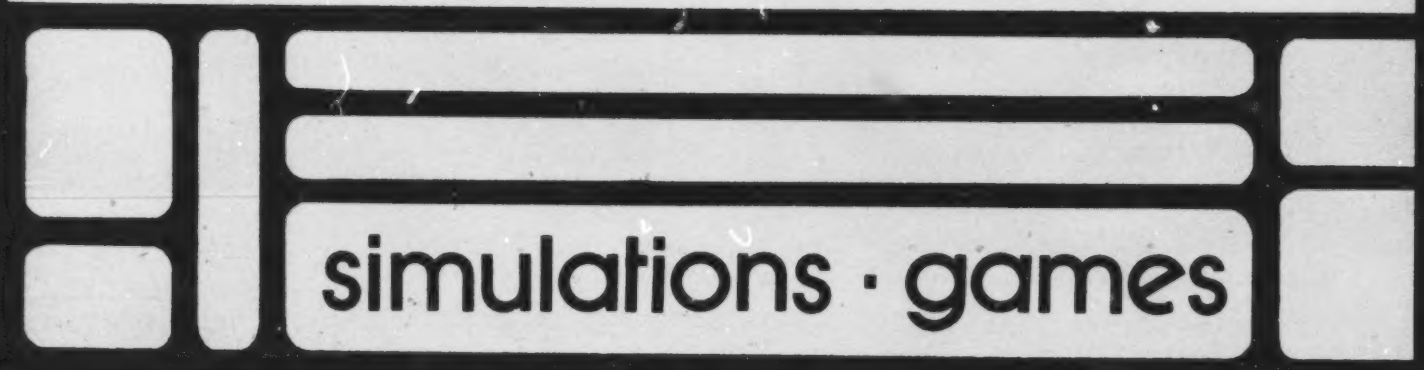
*RESOURCE RECOVERY EDUCATION KIT. NATL. CTR. FOR RESOURCE RECOVERY, INC. RESTON, VA, NATL. ASSN. OF SECONDARY SCH. PRINIPALS, 1974. $12.00
LEVEL: 7-12
CHART
TEACHER'S GUIDE

SCIENCE CURRICULUM IMPROVEMENT STUDY. REGENTS OF THE UNIV. OF CALIFORNIA. CHICAGO, RAND MCNALLY & CO.
LEVEL: K-6
ENRICHMENT MATERIAL
STUDENT MATERIAL
TEACHER'S GUIDE

KIT/PACKAGE (CONT.)
"SCIENCE PRINCIPLES & GAS APPLIANCES WITH EXPERIMENTS" WEAVER, E.C. ARLINGTON, VA, AMER. GAS ASSN. ED. SVCS., 1969.
LEVEL: 7-12
ENRICHMENT MATERIAL
STUDENT MATERIAL
DITTO MASTER
TEACHER'S GUIDE
TRANSPARENCY
TESTED: YES

SIMPLE MACHINES. MEDIA MATERIALS, INC. BALTIMORE, MEDIA MATERIALS, INC. $9.95
LEVEL: 3-5
LIBRARY CARDS
WORKBOOK
STUDENT MATERIAL
TEACHER'S GUIDE
CASSETTE AUDIO-TAPE

WEATHER/ENERGY & MATTER: PRACTICE IN SCIENCE INVESTIGATIONS. ROSENBERRY, M., ET AL. DANSVILLE, NY, INSTRUCTOR PUBL., 1976. $4.95
LEVEL: 4-6
CHART
WORKBOOK
STUDENT MATERIAL
DITTO MASTER
TEACHER'S GUIDE


simulations · games

SIMULATION/GAME
ATTITUDE: COMPUTER ORIENTED EXERCISES ON ATTITUDES AND U.S. GASOLINE CONSUMPTION (DRAFT) COMPUTER TECHNOLOGY PROG. PORTLAND, NW REGIONAL ED. LAB, 1975. $15.00 (GUIDE ONLY)
LEVEL: 7-9
LEVEL: 10-12
STUDENT MATERIAL
TEACHER'S GUIDE
COMPUTER PROG.

BALANCE: A SIMULATION OF FOUR FAMILIES CAUGHT IN ECOLOGICAL DILEMMAS. YOUNT, D., ET AL. LAKESIDE, CA, INTERACT, 1970.
LEVEL: 10-12
TEACHER'S GUIDE

CONSUME: A COMPUTER ORIENTED PROBLEM SOLVING UNIT (DRAFT) COMPUTER TECHNOLOGY PROG. PORTLAND, OR, NW REGIONAL ED. LAB, 1975. $15.00 (GUIDE ONLY)
LEVEL: 7-9
LEVEL: 10-12
STUDENT MATERIAL
TEACHER'S GUIDE
COMPUTER PROGRAM
TESTED: NO

DAM: COMPUTER IMPLEMENTED WATER RESOURCE TEACHING GAME. VIRGINIA POLYTECHNIC INST. DEPT. OF FISH & WILDLIFE SCI. BLACKSBURG, VA, VIRGINIA POLYTECHNIC INST. DEPT. OF FISH & WILDLIFE SCI.
LEVEL: 10-12

DEATH RAY. WILCOX, J. HUNTINGTON BEACH, CA., WILCOX, J., 1976. $1.00
LEVEL: 7-12
STUDENT MATERIAL
TEACHER'S GUIDE

DISCOVERING ENERGY. GORSKI, L.J. SPRINGFIELD, MA, MILTON BRADLEY, 1974.
LEVEL: 7-9
TESTED: YES

SIMULATION/GAME (CONT.)
DISPATCH: POWER DISPATCH TRAINER. FINK, F.T., ET AL. E. LANSING, MICHIGAN STATE UNIV., 1975. $2.50
LEVEL: 10-12

EARTH 2020: FACULTY INSTITUTE WORKBOOK. CONLEY, J.H., ED. SUNNYVALE, CA, NASAAMES RES. CTR., 1975. $10.00
LEVEL: 7-12
CHART
ENRICHMENT MATERIAL
WORKBOOK
STUDENT MATERIAL
DITTO MASTER
CURRICULUM GUIDE
TEACHER'S GUIDE
SLIDES
CASSETTE AUDIO-TAPE
TESTED: YES

ELECTRICAL ENERGY & THE ENVIRONMENT. WATKINS, K., ET AL. CLEVELAND, GA, PIONEER C.E.S.A., 1975.
LEVEL: 7-12
TEXTBOOK
STUDENT MATERIAL
FIELD TRIP GUIDE
TEACHER'S GUIDE
TESTED: YES

ELECTRICAL SAFETY IN & AROUND THE HOME. SCHEETZ, R.B. NEW YORK, EDISON ELECTRIC INST. ED. SVCS., 1976. $22.00
LEVEL: 4-6
POSTER
DITTO MASTER
CURRICULUM GUIDE
TEACHER'S GUIDE
CASSETTE AUDIO-TAPE
AUDIO-TAPE
FILM STRIP
TESTED: YES

SIMULATION/GAME (CONT.)
*ELECTRICITY & ME...& ENERGY CONSERVATION. EDISON ELECTRIC INST. ED. SVCS. NEW YORK, EDISON ELECTRIC INST. ED. SVCS., 1976. $40.00
LEVEL: 6-9
STUDENT MATERIAL
DITTO MASTER
TEACHER'S GUIDE
CASSETTE AUDIO-TAPE
FILM STRIP
TESTED: YES

ENERGY: A COMPUTER SIMULATION OF THE U.S. ENERGY CRISIS (DRAFT) COMPUTER TECHNOLOGY PROG.
252 PORTLAND, OR, NW REGIONAL ED LAB, 1975. $15.00 (GUIDES ONLY)
LEVEL: 7-9
LEVEL: 10-12
STUDENT MATERIAL
TEACHER'S GUIDE
COMPUTER PROGRAM
TESTED: NO

ENERGY: A MULTI-MEDIA LEARNING UNIT. SCHOLASTIC BK SVCS. ENGLEWOOD CLIFFS, SCHOLASTIC BK SVCS., 1974.
LEVEL: 4-6
CHART
TEACHER'S GUIDE
RECORD (DISC)
CASSETTE AUDIO-TAPE
TESTED: YES

ENERGY CHOICES SIMULATION. ATMAN, K.S., ET AL. PITTSBURGH, CURRICULUM INNOVATORS & IMPLEMENTORS, INC., 1976. $3.50
LEVEL: 10-12
STUDENT MATERIAL
CURRICULUM GUIDE
TEACHER'S GUIDE

SIMULATION/GAME (CONT.)
*ENERGY CONSERVATION. WATKINS, K, ET AL. CLEVELAND, GA, PIONEER C.E.S.A., 1975.
LEVEL: 7-12
TEXTBOOK
STUDENT MATERIAL
FIELD TRIP GUIDE
TEACHER'S GUIDE
TESTED: YES

ENERGY CRISIS: ARE YOU INVOLVED? YOUTH ED. INC. NEW YORK, YOUTH ED. INC.
LEVEL: K-8

ENERGY CRISIS GAMEBOARD. SOMMERKAMP, P. WASHINGTON, SCI. TEACHER, JUNE, 1975. $18.00 PER YEAR
LEVEL: 7-9

ENERGY & ECOLOGY: ARE YOU INVOLVED? YOUTH ED. NEW YORK, LEARNING REALITIES. $6.95
LEVEL: 7-12
PUZZLES
WORKBOOK
DITTO MASTER

ENERGY-ENVIRONMENT GAME 1973. EDISON ELECTRIC INST. NEW YORK, EDISON ELECTRIC INST., 1973. $20.00
LEVEL: 7-12
CHART
STUDENT MATERIAL
DITTO MASTER
TEACHER'S GUIDE
RECORD (DISC)
FILM STRIP
TESTED: YES

ENERGY IN THE COMMUNITY. GORSKI, L.J. SPRINGFIELD, MA, MILTON BRADLEY, 1974.
LEVEL: 7-9
TESTED: YES

ENERGY X. IDEAL SCHOOL SUPPLY CO. OAK LAWN, IL., IDEAL SCHOOL SUPPLY CO., 1974. $19.50
LEVEL: 7-12

SIMULATION/GAME (CONT.)
GLOBAL ENERGY SITUATION ON EARTH (DRAFT) COMPUTER TECHNOLOGY PROG. PORTLAND, OR, NW REGIONAL ED. LAB, 1975. $15.00 (GUIDES ONLY)
LEVEL: 7-9
LEVEL: 10-12
STUDENT MATERIAL
TEACHER'S GUIDE
COMPUTER PROGRAM
TESTED: NO

HANDBOOK FOR CITIZENS' WORKSHOPS ON ENERGY & THE ENVIRONMENT. OAK RIDGE ASSOC. UNIV. OAK RIDGE, TN, U.S. AEC, 1973.
LEVEL: 10-12
WORKBOOK
CURRICULUM GUIDE
TEACHER'S GUIDE

*HOUSEHOLD ENERGY GAME. SMITH, T.W., ET AL. MADISON, SEA GRANT COLLEGE, UNIVERSITY OF WISCONSIN, 1974.
LEVEL: 10-12
STUDENT MATERIAL

*MASS TRANSIT. GORSKI, L.J. SPRINGFIELD, MA, MILTON BRADLEY, 1974.
LEVEL: 7-9
TESTED: YES

NO DAM ACTION. KLIETSCH, R.G. ST. PAUL, INSTR. SIMULATIONS, INC., 1972. $125.00
LEVEL: 10-12
CHART
STUDENT MATERIAL
TEACHER'S GUIDE
TESTED: YES

NUCLEAR ENERGY GAME. O'LEARY, A. HUNTINGTON, NY, SIMULATION LEARNING INST., INC. $45.00

OIL EXPLORATION GAME. L & S ED. EQUIPMENT PTY. LTD. VICTORIA, AUSTRALIA, L & S ED. EQUIPMENT PTY. LTD. $15.00
LEVEL: 7-12

SIMULATION/GAME (CONT.)
OUR U.S. ENERGY FUTURE (DRAFT) COMPUTER TECHNOLOGY PROG. PORTLAND, OR, NW REGIONAL ED. LAB, 1975. $15.00 (GUIDES ONLY)
LEVEL: 7-9
LEVEL: 10-12
STUDENT MATERIAL
TEACHER'S GUIDE
COMPUTER PROGRAM
TESTED: NO

PEOPLE & TECHNOLOGY; UNIT II & UNIT III TOOL KIT. ED. DEV. CTR. CAMBRIDGE, MA, ED. DEV. CTR., 1974. $89.49
LEVEL: 7-9
POSTER
PLAY
CHART
ENRICHMENT MATERIAL
STUDENT MATERIAL
TEACHER'S GUIDE
SLIDES
RECORD (DISC)
AUDIO-TAPE
FILM STRIP
TESTED: YES

*POWER PLAY: AN ENERGY CRISIS BOARD GAME. YOUTH ED., INC. NEW YORK, YOUTH ED., INC.
ENRICHMENT MATERIAL

*PUT OUT THE LIGHTS! GORSKI, L.J. SPRINGFIELD, MA, MILTON BRADLEY, 1974.
LEVEL: 7-9
TESTED: YES

*SAVE A WATT GAME. CON EDISON. NEW YORK, CON EDISON.

SEARCH SIMULATIONS: ECONOMIC: THE BATTLE OF RIPPLE CREEK. STINE, J. & R. NEW YORK, STINE, J. & R., 1974. $24.95
LEVEL: 7-12

SIMULATION/GAME (CONT.)

THE URBAN AGE: GEOGRAPHICAL PERSPECTIVES FOR THE SOCIAL STUDIES UNIT V: "ENERGY AND THE ENVIRONMENT" RITTER, F.A., ET AL. NEW YORK, MACMILLAN CO., 1977.
LEVEL: 7-12
TEXTBOOK
TEACHER'S GUIDE
TRANSPARENCY
TESTED: NO

254 URBAN ECONOMIC SIMULATION. BAZAN, F.J. ET AL. UNIVERSITY PARK, PENN. ST. UNIV., 1976. $5.00
STUDENT MATERIAL
TEACHER'S GUIDE
TESTED: YES

WHAT IS ALL THIS DAM FOOLISHNESS. NATL. COUNCIL FOR GEOGRAPHIC ED. OAK PARK, IL, NATL. COUNCIL FOR GEOGRAPHIC ED., 1975. $.50
LEVEL: 7-12

multi-media

MULTI-MEDIA

CRITICAL ISSUES IN SCIENCE & SOCIETY: THE GREAT ENERGY DEBATE. SCIENCE & MANKIND. WHITE PLAINS, NY, SCIENCE & MANKIND. $104.50
LEVEL: 9-12
SLIDES

ELECTRIC ENERGY-- UTILIZATION, GENERATION, TRANSMISSION, DISTRIBUTION, CONSERVATION. PARADY. ATHENS, GA, AMER. ASSN. FOR VOC. INSTR. MATERIALS, 1976.
LEVEL: 7-12
TEXTBOOK
SLIDES
CASSETTE VIDEO-TAPE
TESTED: YES

ELECTRIC SAFETY FROM "A" TO ZAP. ED. SERVICES PROG. JACKSON, MI, CONSUMERS POWER CO., 1973.
LEVEL: K-8
ENRICHMENT MATERIAL
COMIC BOOK
COLORING BOOK
DITTO MASTER
RECORD (DISC)
FILM STRIP
16 MM FILM

ENERGY: A WORLD RESOURCES KIT. XEROX FILMS. MIDDLETOWN CT, XEROX FILMS, 1974. $39.95
LEVEL: 7-12
DITTO MASTER
STUDENT MATERIAL
TEACHER'S GUIDE
FILM STRIP

MULTI-MEDIA (CONT.)

ENERGY, ECONOMICS, AND THE ENVIRONMENT. THOS. ALVA EDISON FOUNDATION, INC. SOUTHFIELD, MI, THOS. ALVA EDISON FOUNDATION, INC., 1974-76.
LEVEL: 1-12
POSTER
PAMPHLET
CHART
ENRICHMENT MATERIAL
DITTO MASTER
CURRICULUM GUIDE
TEACHER'S GUIDE
TRANSPARENCY
CASSETTE AUDIO-TAPE
REEL-TO-REEL AUDIO-TAPE
AUDIO-TAPE
REEL-TO-REEL VIDEO-TAPE
16 MM FILM

ENERGY & THE ENVIRONMENT: COAL MINING IN APPALACHIA. SCH. & SOCIETY PROGRAMS. CAMBRIDGE, MA, ED. DEV. CTR., INC, 1976.
LEVEL: 9-12
POSTER
TEACHER'S GUIDE
FILM STRIP

EXPLORING YOUR ENVIRONMENTAL CHOICES: AN INQUIRY AND DECISION-MAKING APPROACH. YOUTH ED., INC. NEW YORK, METROPOLITAN LIFE, 1974.
LEVEL: 10-12
PAMPHLET
TEACHER'S GUIDE
TRANSPARENCY
CASSETTE VIDEO-TAPE
TESTED: YES

*FIRST IDEAS ABOUT ENERGY. BEAN, N. PROD. SANTA MONICA, BFA ED MEDIA, 1975. $56.00-4 FILMSTRIPS WITH PHONODISC
LEVEL: K
LEVEL: 1-3
TEACHER'S GUIDE
RECORD (DISC)
CASSETTE AUDIO-TAPE
AUDIO-TAPE
FILM STRIP
TESTED: YES

MULTI-MEDIA (CONT.)

GLOBAL EMERGENCY: ENERGY.
GUIDANCE ASSOCIATES. NEW YORK, GUIDANCE ASSOCIATES, 1975. $48.50
LEVEL: 7-12
TEACHER'S GUIDE
FILM STRIP

HOW ELECTRIC MOTORS START & RUN. PARADY. ATHENS, GA, AMER. ASSN. FOR VOC. INSTR. MATERIALS, 1969.
LEVEL: 7-12
TEXTBOOK
SLIDES
CASSETTE VIDEO-TAPE
FILM STRIP

OIL SHALE MULTI-MEDIA KIT.
AUGUSTIN, B., ET AL. CHICAGO, NATL. COUNCIL FOR GEOGRAPHIC ED., 1975. $8.95
LEVEL: 4-12
PAMPHLET
ENRICHMENT MATERIAL
TEACHER'S GUIDE
SAMPLES OF SHALE & OIL PRODUCED FROM SHALE
TRANSPARENCY
35 MM FILM
TESTED: NO

OUR ENERGY-BASED ECONOMY.
WEST PENN POWER CO. HARRISBURG, PA, WEST PENN POWER CO., 1975.
LEVEL: 7-9
POSTER
PAMPHLET
CHART
STUDENT MATERIAL
DITTO MASTER
TEACHER'S GUIDE
FILM STRIP
TESTED: YES

POWERFUL FRIEND, A. ED. SERVICES PROG. JACKSON, MI, CONSUMERS POWER CO.
LEVEL: K-3
DITTO MASTER
RECORD (DISC)
FILM STRIP

MULTI-MEDIA (CONT.)

PRIORITY ONE: ENVIRONMENT.
POLLUTION CONTROL ED. CTR. UNION, NJ, POLLUTION CONTROL ED. CTR.
LEVEL: 1-12
ENRICHMENT MATERIAL
STUDENT MATERIAL
TEACHER'S GUIDE
TRANSPARENCY
CASSETTE AUDIO-TAPE
FILM STRIP
TESTED: YES

TECHNOLOGY AND THE UNITED STATES. MITSAKOS, C.L. ET AL. CHELMSFORD, MA, CHELMSFORD PUBLIC SCHS, 1973. $4.00
LEVEL: 4-6
TEACHER'S GUIDE
TESTED: YES

257

THE WORLD OF ENERGY. NAT'L. GEOG. SOCIETY. WASHINGTON, NAT'L. GEOG. SOCIETY, 1974. $67.50
LEVEL: 7-12
TEACHER'S GUIDE
RECORD (DISC)
AUDIO-TAPE
FILM STRIP

programmed instruction

PROGRAMMED INSTR.

"A" LEVEL PHYSICS: (SI UNITS) CHAPPLE, MICHAEL. LONDON, MACDONALD & EVANS, 1974.
WORKBOOK

CONSUMER EDUCATION PROGRAMMED LEARNING INSTRUCTION IN USING LEISURE TIME, ENERGY & MONEY, UNIT VII. ALPHA PHI CHAPTER. ST. PETER, MN, DELTA PHI EPSILON NATL. OFFICE, 1970. $.50
WORKBOOK

ENERGY, ORGANIZATION & LIFE. PANARES, R.R. CHICAGO, ED. METHODS, 1967. $3.75
LEVEL: 10-12
TEXTBOOK
STUDENT MATERIAL
TESTED: YES

INDIVIDUALIZED INSTRUCTION IN SCIENCE: EARTH-SPACE PROJECT. KUCZNA, R.M. EASTCHESTER, NY, EASTCHESTER PUBLIC SCH., 1972. $3.32
LEVEL: 10-12
WORKBOOK
STUDENT MATERIAL

MAN & ENVIRONMENT: A CHANGING RELATIONSHIP. CARNEY, A.P., ED. CHICAGO, DENOYER-GEPPERT, 1973. $245.00
LEVEL: K-3
CHART
STUDENT MATERIAL
DITTO MASTER
TEACHER'S GUIDE
RECORD (DISC)
TESTED: YES

SOLAR HEATING PAPERS. SAUNDERS, N.B. WESTON, MA, SAUNDERS, N.B.
LEVEL: 10-12
STUDENT MATERIAL

PROGRAMMED INSTR. (CONT.)

THE GREEN BOX: HUMANISTIC ENVIRONMENTAL EDUCATION. RICH, B. EUREKA, CA, HUMBOLDT COUNTY SCHOOLS OFFICE OF ENVIRONMENTAL ED., 1975. $35.00
STUDENT MATERIAL
TESTED: YES

other...

EXPERIMENTS
FUNDAMENTALS OF ATOMIC ENERGY. ED. TEACHING AIDS DIV. CHICAGO, DAIGGER, A., & CO. $12.50

FUNDAMENTALS OF ELECTRICITY. ED. TEACHING AIDS DIV. CHICAGO, DAIGGER, A., & CO. $15.00

FUNDAMENTALS OF JET PROPULSION. ED. TEACHING AIDS DIV. CHICAGO, DAIGGER, A., & CO. $10.50

JUNIOR SCIENCE KITS: MAKING WORK EASIER; ELECTRICITY; USING MAGNETS (3 OF 5) ED. TEACHING AIDS DIV. CHICAGO, DAIGGER, A., & CO. $31.35
ENRICHMENT MATERIAL

MACHINES & ENERGY: LAB II. ED. TEACHING AIDS DIV. CHICAGO, DAIGGER, A., & CO. $65.00

MAGNETISM & ELECTROMAGNETISM. ED. TEACHING AIDS DIV. CHICAGO, DAIGGER, A., & CO. $18.50

SOURCES OF ENERGY: LAB III. ED. TEACHING AIDS DIV. CHICAGO, DAIGGER, A., & CO. $56.00

ELECTRONIC SIMULATOR
ENERGY - ENVIRONMENT SIMULATOR: MODELS: A230, A240 & A209. TENNTRONICS, INC. CUSTOM DESIGN & MFG. CLARKSVILLE, TN, TENNTRONICS, INC. CUSTOM DESIGN & MFG. $1995. - $6100.

EARS ENERGY CATALOG. ENVIRONMENTAL ACTION REPRINT SVCS. DENVER, ENVIRONMENTAL ACTION REPRINT SVCS. FREE IF REQUESTED ON SCHOOL STATIONERY $.50 OTHERWISE
LEVEL: K-12
CATALOG OF ENERGY-RELATED BOOKS, PAMPHLETS, PLANS, GRAPHICS, ET
TESTED: NO

CARDBOARD CUT-OUTS
ELECTRICITY SERVES OUR COMMUNITY 1974. EDISON ELECTRIC INST. NEW YORK, EDISON ELECTRIC INST., 1974. $3.00
LEVEL: 4-6
STUDENT MATERIAL
TEACHER'S GUIDE
BULLETIN BOARD DISPLAY
TESTED: NO

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